

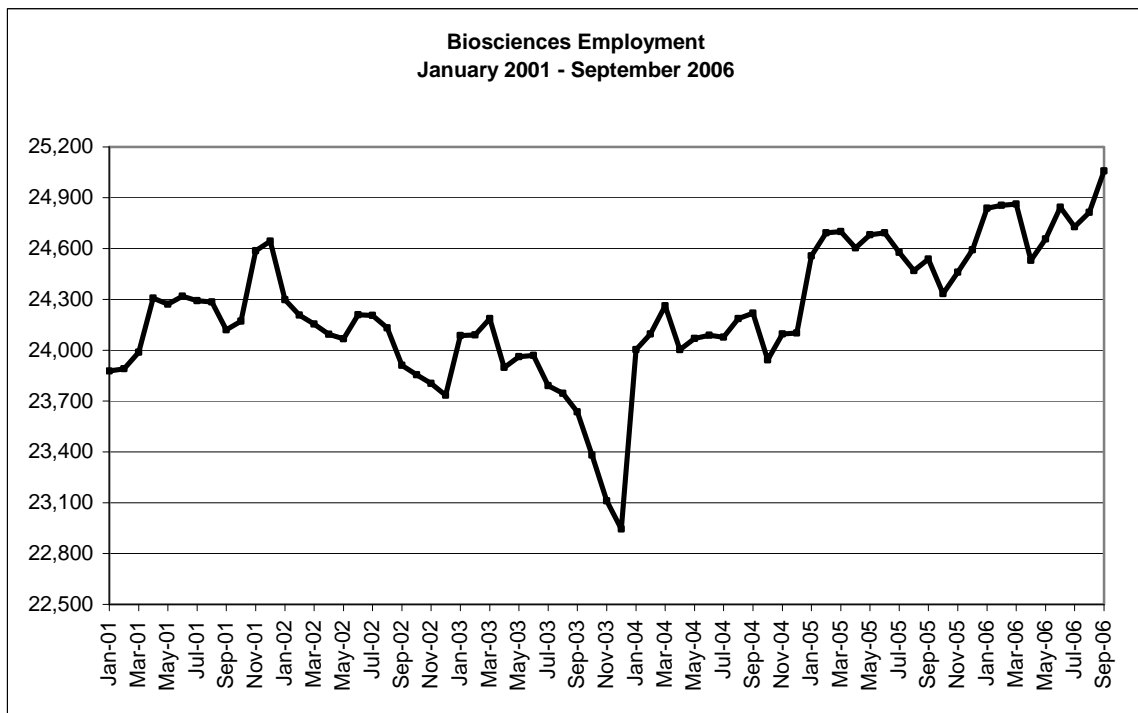
# Florida Biotechnology Industry Labor Market Industry Profile



Source: Florida Agency for Workforce Innovation, Labor Market Statistics Center  
Prepared May 2007

## Florida Biosciences Industry

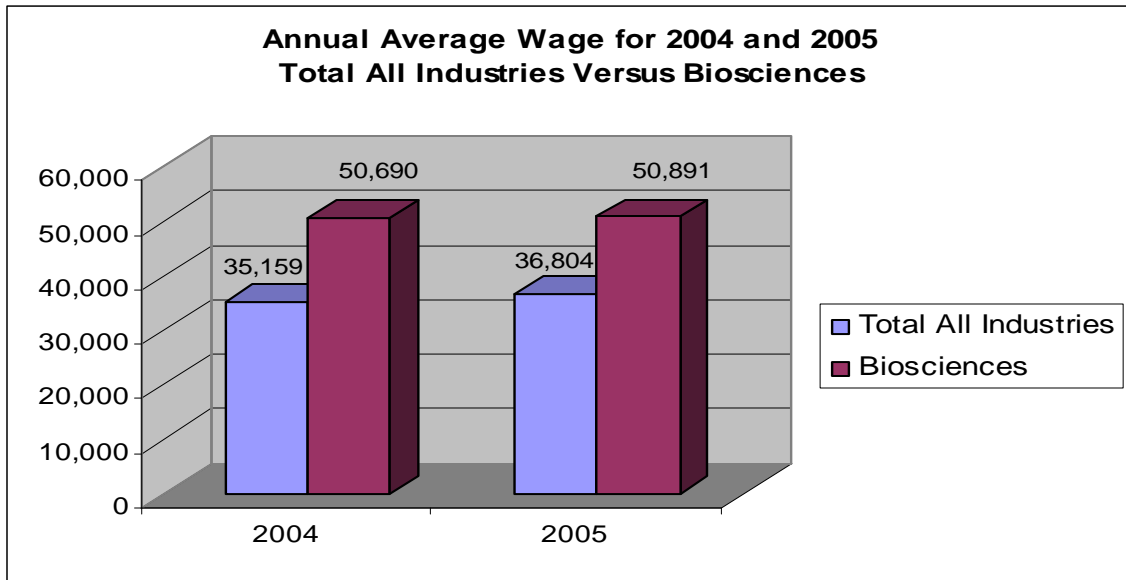
- The biosciences industry includes the following sectors: medicinal and botanical manufacturing; pharmaceutical preparation manufacturing; in-vitro diagnostic substance/biological product manufacturing; electromedical and electrotherapeutic apparatus manufacturing; analytical laboratory instrument manufacturing; irradiation apparatus manufacturing; and medical equipment and supplies manufacturing.
- The biosciences industry sector had 486 establishments in September 2006 with employment of 25,058, up 520 jobs from September 2005 with the majority of this gain found in surgical appliance and supplies manufacturing (+303 jobs, +7.1 percent) and laboratory apparatus and furniture manufacturing (+106 jobs, +18.1 percent). The gains in these industries were accompanied by losses in water transportation (-457 jobs, -3.7 percent).



**Source:** Florida Agency for Workforce Innovation, Labor Market Statistics Center, Quarterly Census of Employment and Wages Program (QCEW).

- The largest industries in biosciences in September 2006 were surgical and medical instrument manufacturing (7,738 jobs); surgical appliance and supplies manufacturing (4,278 jobs); and ophthalmic goods manufacturing (4,001 jobs). These three industries make up 63.9 percent of the biosciences employment.

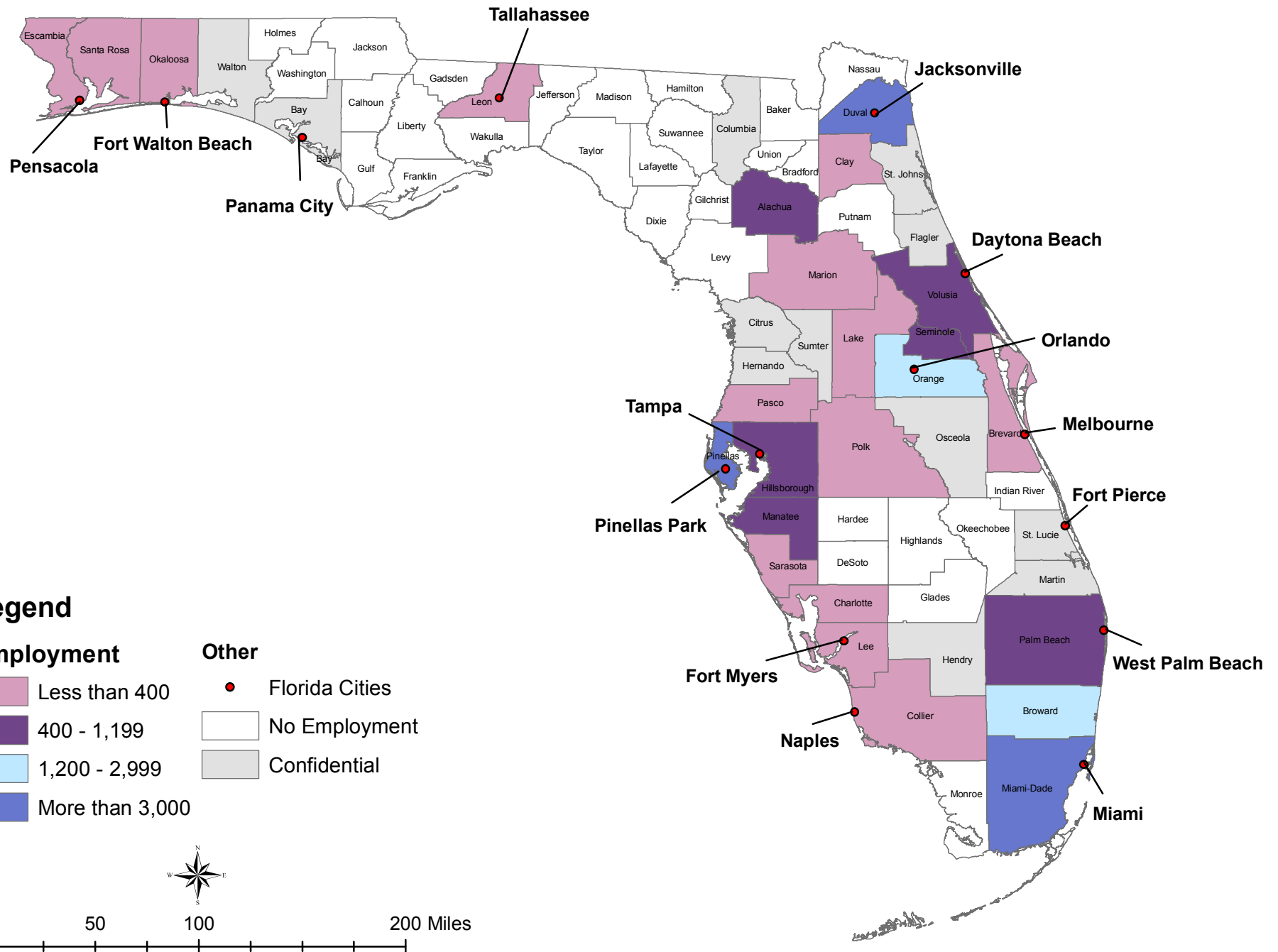
- The 2005 annual average wage for workers in the biosciences industry was \$50,891, exceeding the state's total annual average wage of \$36,804 by 38 percent.



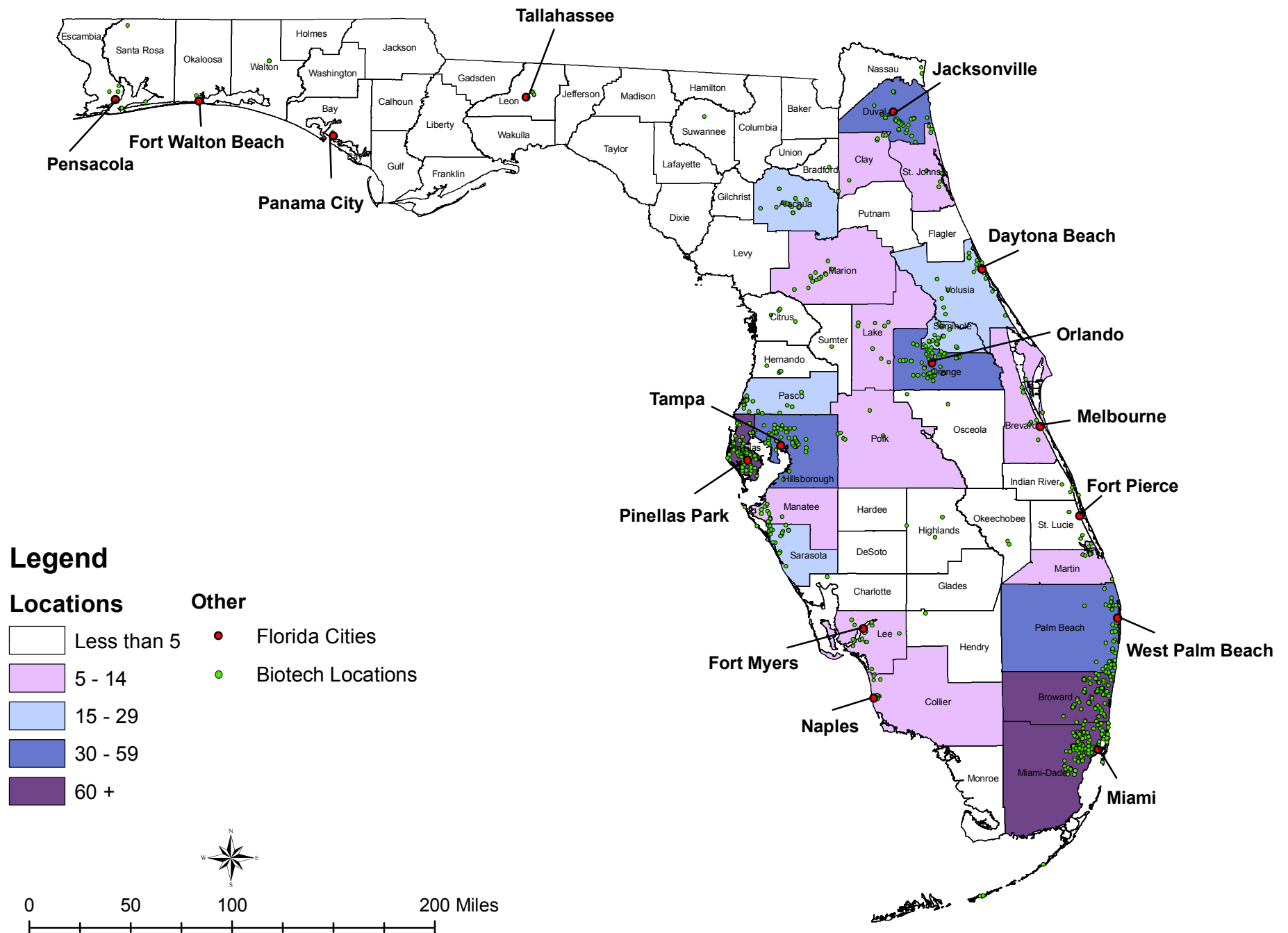
**Source:** Florida Agency for Workforce Innovation, Labor Market Statistics Center, Quarterly Census of Employment and Wages Program (QCEW).

- Because the primary function of the biosciences industry is to manufacture pharmaceutical and medical instruments, seven of the fifteen largest occupations employed by this industry are production-related.
- Employment in the biosciences industry is concentrated in the southeast, central, and northeast parts of the state.
- The 15 largest biosciences occupations comprise only about 41 percent of the employment in this industry, signifying a very diverse industry that employs a wide array of occupations in relatively small numbers.
- Among the 15 largest occupations, hourly wages ranged from a high of \$36.41 for electrical engineers to a low of \$8.86 for packers and packagers, hand.
- Four of the fifteen largest occupations in this industry cluster have an average wage greater than \$16.00 per hour.

# Biotech Employment



# Biotech Establishments by Location



Source: Florida Agency for Workforce Innovation, Labor Market Statistics Center, ALMIS Resource Center Employer Database, InfoUSA Inc., 2007, 2nd Edition, Prepared June 2007.

- The fifteen largest occupations, listed in the table below, represent four out of ten (41.5 percent) jobs in the biotechnology industry.

Biotechnology Industry							
Florida Statewide							
Occupation Title	Employment		Annual Change		% of	2006	Training Requirement
	2006	2014	Total	Percent	Industry Total	Average Wage	
Electrical and Electronic Equipment Assemblers	2,919	2,536	-48	-1.64	7.18	11.89	Postsecondary Vocational
Team Assemblers	2,554	2,919	46	1.79	6.29	11.21	High School Diploma
Inspectors, Testers, Sorters, Samplers, and Weighers	1,498	1,555	7	0.48	3.69	15.73	High School Diploma
Ophthalmic Laboratory Technicians	1,377	1,616	30	2.17	3.39	12.19	Postsecondary Vocational
First-Line Superv. of Production and Operating Workers	1,085	1,185	13	1.15	2.67	24.81	Postsecondary Vocational
Electrical Engineers	926	878	-6	-0.65	2.28	36.41	Bachelor's Degree
Industrial Engineers	846	936	11	1.33	2.08	30.92	Bachelor's Degree
Customer Service Representatives	802	901	12	1.54	1.97	13.52	Postsecondary Vocational
Machinists	788	842	7	0.86	1.94	16.28	Postsecondary Vocational
Electromechanical Equipment Assemblers	705	552	-19	-2.71	1.74	12.19	Postsecondary Vocational
Packaging and Filling Machine Operators and Tenders	694	809	14	2.07	1.71	10.97	Less than High School
Packers and Packagers, Hand	689	832	18	2.59	1.70	8.86	Less than High School
Shipping, Receiving, and Traffic Clerks	672	672	0	0.00	1.65	12.37	High School Diploma
Structural Metal Fabricators and Fitters	653	763	14	2.11	1.61	14.77	Postsecondary Vocational
Office Clerks, General	646	627	-2	-0.37	1.59	11.36	High School Diploma

**Source:** Florida Agency for Workforce Innovation, Labor Market Statistics Center, 2006 wage data, Forecast to 2014.

- Electrical and electronic equipment assembler is the largest occupation within the biotechnology industry, with an average wage of \$24,730 annually or \$11.89 per hour.
- Among the top fifteen occupations in biotechnology, 10 are expected to record job gains. Four of the largest fifteen biotechnology occupations are expected to lose jobs over the next seven years (2006-2014)
- Packers and packagers, hand and ophthalmic laboratory technicians have been predicted to be two of the fastest growing occupations in the biotechnology industry with projected annual growth rates of 2.59 percent and 2.17 percent, respectively.
- The average hourly wages ranges from a high of \$36.41 for electrical engineers to a low of \$8.86 for hand packers and packagers.
- The highest paying occupations in the biotechnology industry are engineers and include: electrical engineers (\$36.41 per hour) and industrial engineers (\$30.92 per hour).
- Higher wages are found in occupations with greater training requirements. Nine of the top fifteen occupations in the biotechnology industry require some type of postsecondary training.